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CLMPTO 08/11/04 JW

Cancel Claims 1-37 and 55,56

Amend Claims 38-54 and 57-66

38. (Currently Amended) A-method according to claim 35, characterised in that a method for connecting a first unit to so as alloconstwork comprising at least two units having different roles, the units being adapted to communicate specification, the ad-hoo network commising at least one piconet formed according to the Physician, the roles of the units in the ad-hoc network commising master and slave, the method comprising the states of:

the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information in the first unit, the information including an indication of the rule of said at least one unit to the ed hoc network:

the first unit thereafter, based on said information, competing to said at least one unit, the first unit thereby becoming connected to the school network;

wherein the star of establishing contact, the first unit sends at least one INCUIR?

message and said at least one unit responds by sending an INQUIRY RESPONSE message computaing a Enquency Hoo Synchronisation (FHS) eacher, the FHS parket including information of the status of said at least one unit in the at least one nigoner, the FHS packet further includes including information as to at least one of the following:

whether the responding unit is connected to at least one of said at least one piconet, whether the responding unit is a slave in at least one of said at least one piconet, whether the responding unit prefers to be a master or a slave after a subsequent PAGE procedure, the number of slaves in at least one of said at least one piconet, the BD_ADDR(a) of at least one master unit of said at least one piconet where the responding unit is a slave member, the clock value(s) of at least one master unit of said at least one piconet where the responding unit is a slave member, inter-piconet scheduling parameters of at least one unit that is connected to at least two piconets, the battery status of the responding unit, traffic parameters in at least one of the piconets or priority parameters.

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39. (Currently Amended) A method asserting to claim 35, characterized in that A method for connecting a first unit to an ad hoc network comprising at least two units having different roles, the units being adapted to communicate according to the Bluetooth specification, the ad hop network comprising at least one piconet formed according to the Bluetooth specification, the roles of the units in the ad hoc network comprising master and slave, the method comprising the stees of:

the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ad hoc natworks

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad box network:

wherein the step of establishing contact, the first unit sends at least one INCUIRY

message and said at least one unit resugnds by scading an INQUIRY RESPONSE message comprising a Prequency Hop Synchronization (FHS) packet the FHS packet including information of the status of said at least one unit in the at least one piconet.

wherein the information is sucoded using at least one of two undefined bits in the FHS packet.

- 40. (Currently Amended) A method according to claim 39, characterised in that wherein one of said at least two undefined bits encodes whether the responding unit is a master of a piconet.
- 41. (Currently Amended) A method according to claim 39, characterized in that wherein one of said at least two undefined bits encodes whether the responding unit is a slave in at least one plomist.
- 42. (Currently Amended) A marked asserting to claim 35, characterised in the A method for connecting a first unit to an ad hoc network comprising at least two units having different roles, the units being adapted to communicate according to the Binstock specification, the ad hoc network comprising at least one piconet formed according to the Binstock specification, the roles of the units in the ad hoc network comprising master and slave, the method commissing the steps of.

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the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ed hoc network:

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad box network;

wherein the step of establishing contact, the flort unit sends at least one INCURY message and said at least one unit responds by sanding an INOUIRY RESPONSE

maguage compositions a Procure of Horn Symptomorphism (PHE) peoker, the PHE peoker including information of the attitue of sold at layer one unlike the set least one picture schedule, the information is encoded using the class of device field in the PHE packet.

43. (Currectly Amended) Amended according to doing 35, elemented in that A mathed for connecting a first unit to on at the influence commission at least two noting having different roles, the units being adverted to commission recently to the Bluecooth appointment of the network competition at least one picture; furnish according to the Bluecooth appointment on the roles of the units in the set too notwork commission master, and alove the mathed commission to be set as a first order to the mathed commission of the units in the set too notwork commission master, and alove the mathed commission the seaso of:

the first unit samblishing contact with at least one of the units of the sci itoo solvents and said at least one unit, in the anti-liberant of occurse, and had at least one unit in the first unit, the information including an indication of the sole of said at least one unit in the ad two networks.

the first unit thereafter, based up said information, connecting to said at least one and, the first unit thereby becoming expected to the ad have network.

whereto the sice of satisficture contact the first and states one iNOURY measure and said at least one unit resonate by satisfic as INOURY RESPONSE measures commission of the states of said at least one will in the still not take including information of the states of said at least one will in the still and one the wherein the information is encoded using the an AM. ADDR field in the FHS probest.

44. (Currently Amended) A method scoording to obtain 43, characterised in that wherein the AM_ADDR field is used to encode whether the responding unit, when subsequently paged, will want to contact to the paging unit as a sieve or a master.

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45. (Currently Amended) A method according to claim 35, observed in the A method for connecting a first unit to an ad hop notwork comprising at least two units having different roles, the units being adapted to communicate seponding to the Huntooth specification, the ad hop network comprising at least one piponet formed according to the Bluetooth specification, the roles of the units in the ad hop network comprising matter and give, the method comprising the steps of:

the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit. In the retablishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ad hoc network:

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad hoc network;

wherein the step of establishing contact, the first unit sends at least one INOURY message and said at least one unit responds by sending an INOURY RESPONSE message comprising a Prequency Hop Synchronization (FHS) packet, the FHS packet including information of the status of said at least one unit in the at least one piconen.

wherein the information is encoded using a combination of the undefined him, the Holass of device field, and the Bn AM_ADDR field in the FHS packet.

46. (Currently Amended) A method according to claim 45, characterised in that wherein the AM_ADDR is used to encode the number of scrive slave units in the piconet for which the responding unit is a master.

47. (Currently Amended) A method according to claim 35 A method for connecting a first unit to an aid has network commissing at least two units having different rules, the units being adapted to communicate according to the Bluetooth specification, the ad hos network comprising at least one pleanet formed according to the Bluetooth specification, the roles of the units in the ad hos network commission and aleve.

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the method pompositive the stars of:

for the unit combitation content with a least one of the units of the adjace network and said at least one unit, in the mabilitions of content conding information to the first unit. The information including an indication of the tole of said at least one unit in the ad has decreased:

the first unit thereafter, based on sold information, companion to sold at least our unit the first unit thereby becoming compected to the ad loss automits;

whereig the step of samblishing gentect the first unit uncir at least one inciting passage and said at least one well responds by seeding up incolling resident. The FIG passage measure summerishing a Proquency How Symphonisation (FRS) medicat, the FIG passage inclination infraporation of the status of said at least one unit in the at least one principle.

wherein the respecting unit is a slave in a piconer, characterised in that and otherwise the first unit sends a PACE to the three indicating the first unit intent to receive the at least one address (RD_ADDR) for the milest one matter for the slave and the stave anding a PACE RESPONSE massage containing the requested of least one RD_ADDR.

48. (Currently Amenical) A method according to claim 47, characteristal in that whenty its PAGE RESPONSE includes at least one current clock value of said at least one master thing of the seeponding unit.

49. (Currently Amsociact) A method according to obtain 47, elementariate that wherein the PAGE RESPONSE further includes information as to at least one of the followings whether the responding unit is consected to at least one of said at least one places, whether the responding unit is a slave in at least one of said at least one places, whether the responding unit prefers to be a master or a place after a subsequent PAGE procedure, the number of stayes in at least one of said at least one picoust, the RDDACOR(s) of at least one meeter unit of said at least one picoust where the

responding unit is a slave member, the clock value(s) of at least one master unit of said at least one piconet where the responding unit is a slave member, inter-piconet scheduling parameters of at least one Hiuetooth that is connected to at least two piconets, the battery status of the responding unit, traffic parameters in at least one of the piconets or priority, parameters.

50. (Currently Amended) A mathod according to claim 15, characterized in that A method for connecting a first unit to an ad hos network commissing at least two units having different roles, the units being adapted to communicate according to the Bluetooth specification, the ad hos network comprising at least one piconet formed according to the Bluetooth specification, the roles of the units in the ad hos network comprising master and sleve, the method comprising the steps of:

the first unit establishing contact with at least one of the units of the ad hos network and said at least one unit. In the establishment of contact, sanding information to the first unit, the information including an indication of the role of said at least one unit in the ad boo network:

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the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad hee network:

wherein the step of establishing contact the first unit sends at least one INOUIR! message and said at least one unit responds by sending an INOUIR! RESPONSE message comprising a Frequency Hon Synchronisation (FHS) packet, the FHS packet including information of the status of said at least one unit in the at least one piconet:

wherein the INQUIRY message contains a Decidested Inquiry Access Code which is decided to, and will only be responded to, by one of the following:

- a unit being a clave unit in one and only one piconst,
- a unit being a slave unit in at least one piconet,
- a unit being a slave unit in more than one pleanat,
- a unit being a slave unit in one or more piconets, but a master unit in none,



- a unit being a slave unit in one or more pieceses and a master unit in one piccost,
- a unit being a master unit in one ploanet, but a slave unit in none,
- a unit that is not connected to any piconet,
- a unit with low current traffic load, or
- a unit with high current traffic load.
- 51. (Currently Amended) A method according to claim 50, characterized in that wherein the INQUIRY message contains a Dedicated Inquiry Access Cods (DIAC) which is only responded to by master units.
- 52. (Currently Amended) A method according to the Bluetoeth specification and the address to comprise the with other according to the Bluetoeth specification and the address comprises at least one piecest formed according to the Bluetoeth specification, the roles of the units in the address network comprising master and class, characterized to the A method for agameting a first unit to an address network comprising at least two units having different roles, the units being adapted to comprising at least one piecest formed according to the Bluetoeth specification, the roles of the units in the address network comprising master and slave, the method comprising the stops of:

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the first unit establishing contact with at least one of the units of the ad how network and said at least one unit, in the establishment of contact sending information to the first unit, the information including an indication of the role of said at least one unit in the ad hoc network:

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad had network:

wherein in the establishment of contact, the first unit sends at issue one INQUIRY message and said at least one unit responds by sending an INQUIRY RESPONSE message comprising a Frequency Hop Synchronisation packet, the INQUIRY message

containing a Dedicated Inquiry Access Code which is only responded to by units having the role of master.

33. (Currently Amended) A method according to claim 38 in the case where the antin are adopted to communicate with other according to the Directoch specification and the of her network comprises at least one pionest formed according to the Directoch openion, the roles of the units in the od has notwork comprising meeter and slave, characterized in that A method for connecting a first unit to an ad hoo network comprising at least two units having different roles, the units being adapted to communicate apporting to the Bluetooth specification, the ad hoc network comprising at least one piconet formed according to the Bluetooth specification, the roles of the units in the ad hoc network comprising to the Bluetooth specification, the roles of the units in the ad hoc network comprising to the Bluetooth specification.

the first unit establishing contact with at least one of the units of the ad hoc network and said at least one unit, in the establishment of contact, sending information to the first unit, the information including an indication of the role of said at least one unit in the ad hoc network:

the first unit thereafter, based on said information, connecting to said at least one unit, the first unit thereby becoming connected to the ad hop networks

whards in the establishment of contact, the first unit sends at least one INQUIRY message and said at least one unit responds by sauding an INQUIRY RESPONSE message comprising a Frequency Hop Synchronization packet, the INQUIRY message containing a Dedicated Inquiry Access Code (DIAC) which is dedicated to, and is only be responded to, by one of the following:

- a unit being a slave unit in one and only one piecest,
- a unit being a slave unit in at least one piconet,
- a unit being a slave unit in more than one piconet,
- a unit being a slave unit in one or more piconets, but a master unit in none,
- a unit being a slave unit in one or more piconets and a master unit in one piconet,

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a unit being a master unit in one piconet, but a slave unit in none,

- a unit that is not connected to any piconet,
- a unit with low current traffic load, or
- a unit with high current treffic load.

54. (Currently Amended) A method according to claim 53, sharestnessed in these wherein the INQUIRY message contains a Dedicated Inquiry Access Code (DIAC) which is only responded to by master units.

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55. (Cancalled)

56. (Cancelled)

57. (Currently Amended) A mastel according to claim 56 in the once where A method for connecting a first unit to an ad hop network comprising at least two units, the at least two units having different roles, the units are heing adapted to communicate with other according to the Hiustooth specification, and the ad hop network comprises comprising at least one piconet formed according to the Bluetooth specification, the roles of the units in the 4d hop network comprising master and slave and said at least one unit having the role of master, characterized in the the method comprising the steps of:

the first unit establishing contact with at least one of the units of the ad hose natwork;

the first unit thereafter opposeting to said at least one unit, the first unit thereby becoming connected to the ad hop network:

wherein in the step of connecting, the first unit chooses or determines the roles of itself and of said at least one unit in the ad hop network formed after the first unit becoming connected;

gherein in the step of connecting, a PAGE measure is sent from the first unit to

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entil at least one unit, thereafter a PACE RESPONDE message is east from eatil at least one unit to the first unit, and finally a Frequency Hop Synchronisation (RES) peoket is sent from the first unit to said at least one unit, the FES product including an indication that the first unit has determined to reverse the paging direction from eatil as least one unit to the first unit.

58. (Currently Amended) A method according to claim 57, characterized in their wherein the revenue is performed by terminating the current PAGE procedure and initiating a new PAGE procedure from the master to the first unit.

39. (Contently Amended) A method according to claim 57, characterized in that phenoin the revenul is performed by the master Biretoch which receives the request for reversal sending an FSS peoked to the first unit with all FSS permeters set as if the sender is the peoked world and the first unit responding with a peoked including only the first unit DAC, thereby concluding the reversal page procedure.

60. (Currently Amended) A method ecoparting to claim 17 wherein the paged unit does not accept the reversal of paging direction, characterises in that and wherein the paged unit responding to the FHE packet with a second FHE packet including the same indirection of request for reversal of paging direction and the first unit reactiving this second FHE packet characteristic to attend once the situation of request for reversal of paging direction and the first unit reactiving this second FHE packet character to attend with the PACIE procedure without reversing or absorbed in PACIE procedure.

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61. (Currently Amended) A method according to also 60, characterised in that wherein if the first unit chances to proceed with the PACE procedure it proceeds by restarting the PACE procedure by sending a new initial PACE message.

62. (Currently Amended) A method according to oleim 60, sharacturised in that

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wherein if the first unit chooses to proceed with the PAGE procedure it proceeds by sending a third FHS message without an indication of request for reversal of paging direction.

- 63. (Correctly Amended) A computer program product directly loadable into the internal memory of a digital computer, comprising software code portions for performing the steps of the methods of or the methods performed by any block or device according to obtain 33-36 when the product is run on a computer.
- 64. (Currently Amended) A computer program product stored on a computer useble medium, comprising readable program means for causing a computer to control the execution of the steps of the methods performed by any block or device according to claim 933B.
- 63. (Currently Amended) A computer program product directly loadable into the internal memory of a digital computer, comprising software code portions for performing the steps of the methods of or the methods performed by any block or davice according to claim \$6-57, when the product is run on a computer.
- 66. (Currently Amended) A computer program product stored on a computer usable modium, comprising readable program means for causing a computer to control the execution of the steps of the methods performed by any block or device according to claim \$657.